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New Claims

New claims 30-40 have been added by this Response. These new claims add no new matter and are fully supported throughout the specification. These new claims are believed allowable for their dependency from an allowable independent claim, as well as by virtue of the subject matter separately recited by these dependent claims. Accordingly, Applicant respectfully requests allowance of dependent claims 30-40.
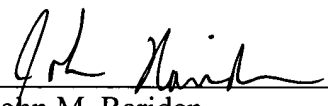
Conclusion

In view of the remarks and amendments set forth above, Applicant respectfully requests allowance of the pending claims. If the Examiner believes that a telephonic interview will help speed this application toward issuance, the Examiner is invited to contact the undersigned at the telephone number listed below.

General Authorization for Extensions of Time

In accordance with 37 C.F.R. § 1.136, Applicant hereby provides a general authorization to treat this and any future reply requiring an extension of time as incorporating a request therefor. Furthermore, Applicant authorizes the Commissioner to charge the appropriate fee as well as any additional fees which may be currently due to Deposit Account No. 50-2401; Order No. 132820IT/YOD (GEMS:0231).

Respectfully submitted,

Date: July 18, 2005

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IN THE CLAIMS

The claims are amended as follows:

1. (currently amended) A physiological monitoring system, comprising:

a data acquisition component configured to acquire a set of physiological data;

a data processing component configured to generate <u>a first representation of the set of physiological data in a first format, and to generate a second representation of the set of physiological data in a second format, wherein the second format is a digital format</u> ~~a plurality of high-resolution symbols from the set of physiological data~~; and

a printing component configured to print at least the <u>second representation</u> ~~plurality of high-resolution symbols~~ onto a suitable medium.

2. (previously presented) The physiological monitoring system as recited in claim 1, wherein the set of physiological data comprises a set of ECG data.

3. (currently amended) The physiological monitoring system as recited in claim 1, wherein the printing component is configured to print the ~~plurality of high-resolution symbols with a printout of the set of physiological data~~ <u>first and second representations</u>.

4. (original) The physiological monitoring system as recited in claim 1, further comprising two or more sensor leads connected to the data acquisition component via respective lead wires.

5. (currently amended) The physiological monitoring system as recited in claim 1, further comprising a storage component configured to receive at least one of the ~~set of physiological data and the plurality of high-resolution symbols~~ <u>first representation or the second representation</u>.

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6. (currently amended) The physiological monitoring system as recited in claim 1, further comprising a scanning component configured to read <u>at least one of</u> the <u>first representation or the second representation</u> ~~plurality of high-resolution symbols~~ from the suitable medium.

7. (currently amended) The physiological monitoring system as recited in claim 6, wherein the data processing component is configured to reconstruct the <u>first representation</u> ~~set of physiological data~~ from the <u>second representation</u> ~~plurality of high-resolution symbols~~.

8. (currently amended) The physiological monitoring system as recited in claim 7, wherein the printing component is configured to print <u>the first representation</u> ~~at least the set of physiological data~~ onto a printout.

9. (currently amended) A physiological data printout, comprising:

a ~~suitable~~ <u>printable</u> medium; and

a plurality of ~~high-resolution~~ symbols printed on the ~~suitable~~ <u>printable</u> medium, wherein the plurality of ~~high-resolution~~ symbols <u>is digitally representative of</u> ~~encode~~ a set of physiological data.

10. (original) The physiological data printout as recited in claim 9, wherein the set of physiological data comprises a set of digital ECG data.

11. (currently amended) The physiological data printout as recited in claim 9, wherein the ~~suitable~~ <u>printable</u> medium comprises a printout of at least a portion of the set of physiological data.

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12. (original) The physiological data printout as recited in claim 9, wherein the set of physiological data comprises at least one digital waveform.

13. (currently amended) A method for storing physiological data, comprising:

acquiring a set of physiological data representative of one or more physiological parameters of interest;

generating a set of ~~high-resolution~~ symbols from the set of physiological data, wherein the set of symbols digitally represents the set of physiological data; and

printing the ~~high-resolution~~ symbols.

14. (original) The method as recited in claim 13, wherein the set of physiological data comprise one or more digital ECG waveforms.

15. (original) The method as recited in claim 13, wherein the set of physiological data comprise one or more digital waveforms.

16. (currently amended) The method as recited in claim 13, wherein printing the ~~high-resolution~~ symbols comprises printing the ~~high-resolution~~ symbols onto a printout of at least a portion of the set of physiological data.

17. (currently amended) A computer program, provided on one or more computer readable media, for storing physiological data, comprising:

a routine for acquiring a set of physiological data representative of one or more physiological parameters of interest;

a routine for generating a set of ~~high-resolution~~ symbols from the set of physiological data, wherein the set of symbols digitally represents the set of physiological data; and

a routine for printing the ~~high-resolution~~ symbols.

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18. (original) The computer program as recited in claim 17, wherein the set of physiological data comprises one or more digital ECG waveforms.

19. (currently amended) A method for acquiring a set of physiological data, comprising:

acquiring a set of ~~high-resolution~~ symbols from a printed medium <u>with a device, wherein the set of symbols digitally represents a set of physiological data representative of one or more physiological parameters of interest</u>; and

~~converting the set of high-resolution symbols to a~~ <u>extracting the</u> set of physiological data <u>from the set of symbols</u> ~~representative of one or more physiological parameters of interest~~.

20. (original) The method as recited in claim 19, wherein the set of physiological data comprises one or more digital ECG waveforms.

21. (original) The method as recited in claim 19, further comprising storing the set of physiological data on a computer-accessible medium.

22. (original) The method as recited in claim 19, further comprising printing at least a portion of the set of physiological data.

23. (currently amended) A computer program, provided on one or more computer readable media, for acquiring a set of physiological data, comprising:

a routine for acquiring a set of ~~high-resolution~~ symbols from a printed medium, <u>wherein the set of symbols digitally represents a set of physiological data representative of one or more physiological parameters of interest</u>; and

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a routine for ~~converting~~ extracting the ~~set of high-resolution symbols to a~~ set of physiological data from the set of symbols ~~representative of one or more physiological parameters of interest~~.

24. (original) The computer program as recited in claim 23, wherein the set of physiological data comprises one or more digital ECG waveforms.

25. (original) The computer program as recited in claim 23, further comprising a routine for storing the set of physiological data on a computer-accessible medium.

26. (original) The computer program as recited in claim 23, further comprising a routine for printing at least a portion of the set of physiological data.

27. (currently amended) An electrocardiograph (ECG) system, comprising:

means for acquiring a set of physiological data representative of one or more physiological parameters of interest;

means for generating a set of ~~high-resolution~~ symbols from the set of physiological data, wherein the set of symbols digitally represents the set of physiological data; and

means for printing the ~~high-resolution~~ symbols.

28. (currently amended) An electrocardiograph (ECG) system, comprising:

means for acquiring a set of ~~high-resolution~~ symbols from a printed medium with a device, wherein the set of symbols digitally represents a set of physiological data representative of one or more physiological parameters of interest; and

means for ~~converting~~ extracting the ~~set of high-resolution symbols to a~~ set of physiological data from the set of symbols ~~representative of one or more physiological parameters of interest~~.

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29. (currently amended) A waveform printout, comprising:

a ~~suitable~~ printable medium; and

means for <u>digitally</u> storing a set of physiological data <u>on the printable medium</u>.

30. (new)   The system as recited in claim 1, wherein the data processing component is configured to generate a plurality of symbols digitally encoding the set of physiological data.

31. (new)   The system as recited in claim 30, wherein the plurality of symbols comprises binary data representative of the set of physiological data.

32. (new)   The system as recited in claim 1, wherein the first format is an analog format.

33. (new)   The system as recited in claim 32, wherein the analog format comprises at least one of a waveform, a chart, or a graph.

34. (new)   The system as recited in claim 32, wherein the second format comprises a binary encoding of the set of physiological data.

35. (new)   The system as recited in claim 32, wherein the second format includes at least one of error detection or error correction information.

36. (new)   The system as recited in claim 35, wherein the error detection comprises at least one of a check-sum or a cyclic redundancy check.

37. (new)   The system as recited in claim 1, wherein the second format includes at least partial redundancy of the set of physiological data.

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38. (new)   The physiological data printout as recited in claim 9, wherein the plurality of symbols comprises binary data indicative of the set of physiological data.

39. (new)   The method as recited in claim 13, wherein the set of symbols comprises binary data representative of the set of physiological data.

40. (new)   The computer program as recited in claim 17, wherein the set of symbols comprises binary data representative of the set of physiological data.